

SP// CONTAINERS

STACKPATH™




Deploy applications closer to end-users than ever before.

Latency isn't just inconvenient—it's expensive, costing you money and customers. And the physical distance between hyper-scale cloud data centers and your end-users might not seem that big, but every mile matters to applications that measure performance in units smaller than milliseconds.





SP// Containers have the edge that latency-sensitive applications need. Enjoy all of the performance and efficiency benefits of containerization from cloud computing. Compound it with the advantage of being in StackPath edge locations worldwide, all connected by a private network backbone, getting data from end-users to the application faster than if the container was in a legacy cloud data center.

Exciting? We know. Please contain yourself.

Use Cases

-  **Micro-services**
Decouple application processes and run latency-sensitive microservices in containers closer to end users, to optimize development, workload performance, reliability, and overall costs.
-  **Temporary Workloads**
Easily scale infrastructure up and down or in and out to meet short-term workload needs with speed, agility, and exceptional cost effectiveness.
-  **Low-latency App Servers**
Configure and completely control container images to run multiple applications and make it exactly the web server, game server, database node or other low-latency solution you require.

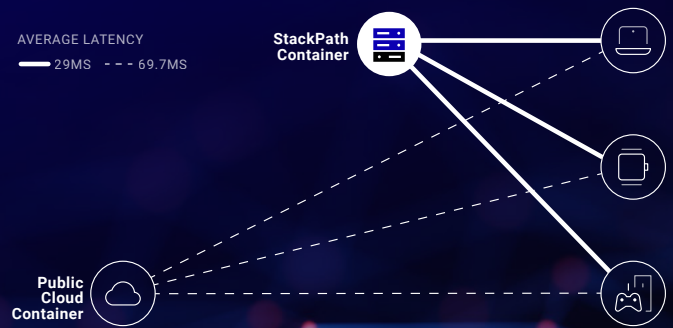
Benefits

-  **Ultra-low Latency**
Deploy containers in any of 22 edge locations, part of our global platform of 50+ geographically diverse locations connected by a private network backbone. End-user data can reach our containers up to 2.6x faster than public cloud containers, and data can move between edge locations 21% faster than if routed over the public Internet.
-  **Multi-cloud Support**
Complement and even integrate services from one or more legacy cloud providers with containers designed for vendor neutrality and industry-standard compatibility to avoid vendor lock-in and find new optimization levels by combining the advantages of core cloud and edge computing.
-  **High Scalability and Flexibility**
Leverage Anycast IP addresses and autoscaling to meet demand spikes, route traffic to the fastest-responding containers, and establish other sophisticated methods to ensure instances are not overloaded, all requests are served promptly, and your operations run efficiently.
-  **More Control and Cost-effectiveness**
Simplify operations by deploying to a fully managed environment with instant deployment, no clusters to deal with, a robust and open RESTful API, support for CI/CD environments and existing DevOps tools like Terraform and direct control over CPU, memory, disk resources and location.

What is edge computing?

Like with any emerging technology, the term “edge computing” gets used in a lot of different ways. At StackPath, we believe edge computing is cloud computing and applications that are as physically close to the end user or device as possible—far fewer network hops away, on average, than a public cloud data center.

This gives modern workloads and applications lower latency, higher resiliency, reduced bandwidth costs, and higher security.



Features

- OCI Image Support**
Deploy Open Container Initiative-compliant container images built in your preferred development environment, like Docker or other industry-standard tools. Simply point to your image uploaded to Github or upload it directly to our platform.
- Instant Deployment**
Have containers running in any or all StackPath edge locations in seconds with a single click or API call.
- Anycast IP Addresses**
Add Anycast IPs to automatically distribute end-user/client traffic to your fastest-responding container, with traffic being routed more efficiently over our edge networks private network backbone.
- Auto-scaling**
Seamlessly scales the configured images across PoPs during periods of high demand to ensure application availability without any service degradation.
- Persistent Storage**
Add up to 1TB of persistent storage to each instance to expand overall storage space for logs or any other data needed or used by your application.
- Liveness and Readiness Probes**
Automate removing unresponsive or incorrectly responding instances from your Anycast routing, optimizing accessibility, accelerating application response times and reducing operational costs.
- Remote Management**
Log in to any of your containers using SSH or Control Portal to install software, configure the OS to your exact needs, and manage it on your terms with automation tools like Terraform, Ansible, Puppet or Chef.
- Management API**
Leverage our robust and open RESTful API to automate any aspect of deploying and managing your application.
- CI/CD Support**
Push changes to containers using DevOps tools like Ansible and Terraform and integrate StackPath in your continuous integration and continuous delivery (CI/CD) pipeline, helping to reduce maintenance downtime and human error in mission-critical applications.
- Network Policy Control**
Define policies that control IP and Port access to your containers for fine-grained control of all network traffic before it reaches your containers, protecting applications from malicious activity.
- Built-in Metrics**
Measure the performance of containers with built-in analytics, reports and dashboards, available through a web UI and API. Use the detailed usage information to make smarter data-driven decisions for your business needs.
- Identity and Access Management (IAM)**
Manage user identities and access privileges to all of your applications to easily establish and manage higher security levels.